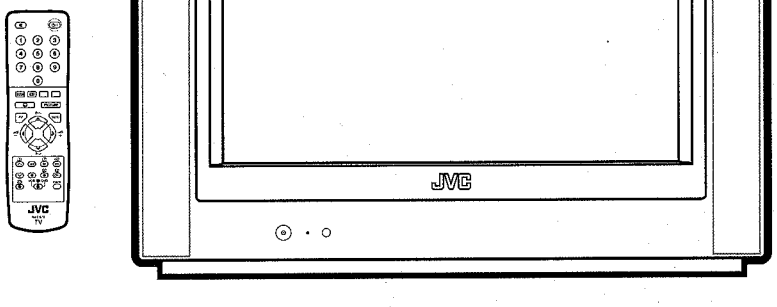
JVC

SCHEMATIC DIAGRAMS

COLOUR TELEVISION

AV-28KH1BUF, AV-28KH1SUF

CD-ROM No.SML200309



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No.52139
2003/9

AV-28KH1BUF
AV-28KH1SUF

STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1.SAFETY

The components identified by the ⚠ symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1)Input signal	: Colour bar signal
(2)Setting positions of each knob/button and variable resistor	: Original setting position when shipped
(3)Internal resistance of tester	:DC 20kΩ /V
(4)Oscilloscope sweeping time	:H ⇒ 20μS/div
	:V ⇒ 5mS/div
	:Others ⇒ Sweeping time is specified
(5)Voltage values	:All DC voltage values

* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

● Resistance value

No unit	:[Ω]
K	:[K Ω]
M	:[M Ω]

● Type

No indication	:Carbon resistor
OMR	:Oxide metal film resistor
MFR	:Metal film resistor
MPR	:Metal plate resistor
UNFR	:Uninflammable resistor
FR	:Fusible resistor

* Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

● Capacitance value

1 or higher	:[pF]
less than 1	:[μF]

● Withstand voltage

No indication	:DC50[V]
Others	:DC withstand voltage [V]
AC indicated	:AC withstand voltage [V]

* Electrolytic Capacitors
47/50[Example]:Capacitance value [μF]/withstand voltage[V]

● Type

No indication	:Ceramic capacitor
MM	:Metalized mylar capacitor
PP	:Polypropylene capacitor
MPP	:Metalized polypropylene capacitor
MF	:Metalized film capacitor
TF	:Thin film capacitor
BP	:Bipolar electrolytic capacitor
TAN	:Tantalum capacitor

(3)Coils

No unit	:[μH]
Others	:As specified

4.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE side GND and the ISOLATED(NEUTRAL) side GND.Therefore, care must be taken for the following points.

(1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.

(2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected , a fuse or any parts will be broken.

◇ **Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.**

NOTE

◇ **Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.**
When ordering parts, please use the numbers that appear in the Parts List.

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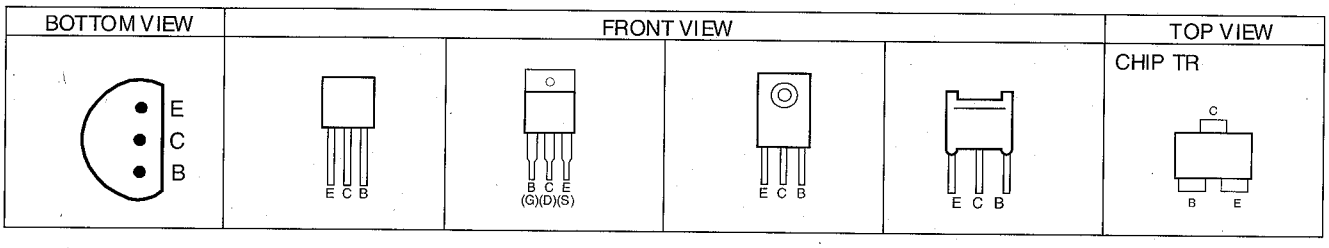
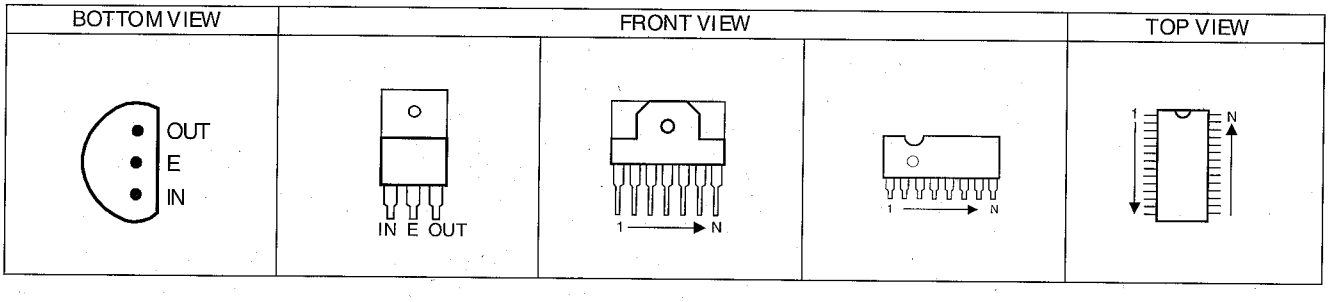
SEMICONDUCTOR SHAPES

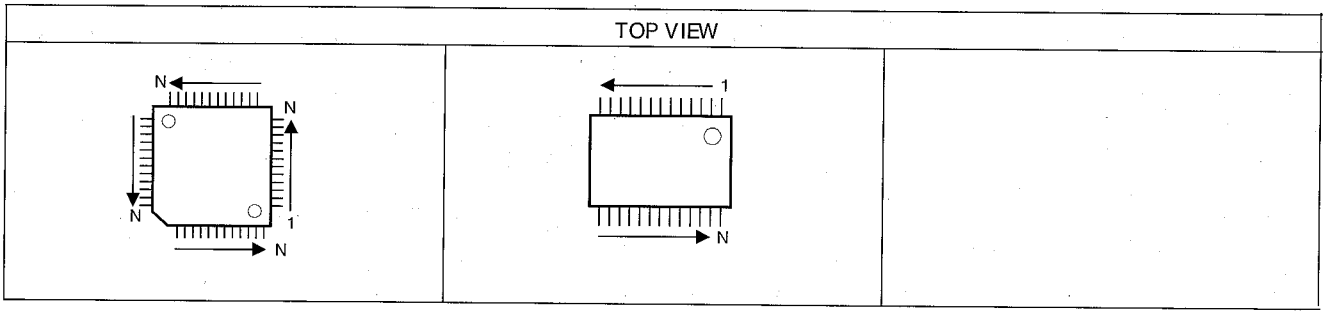
TRANSISTOR



IC

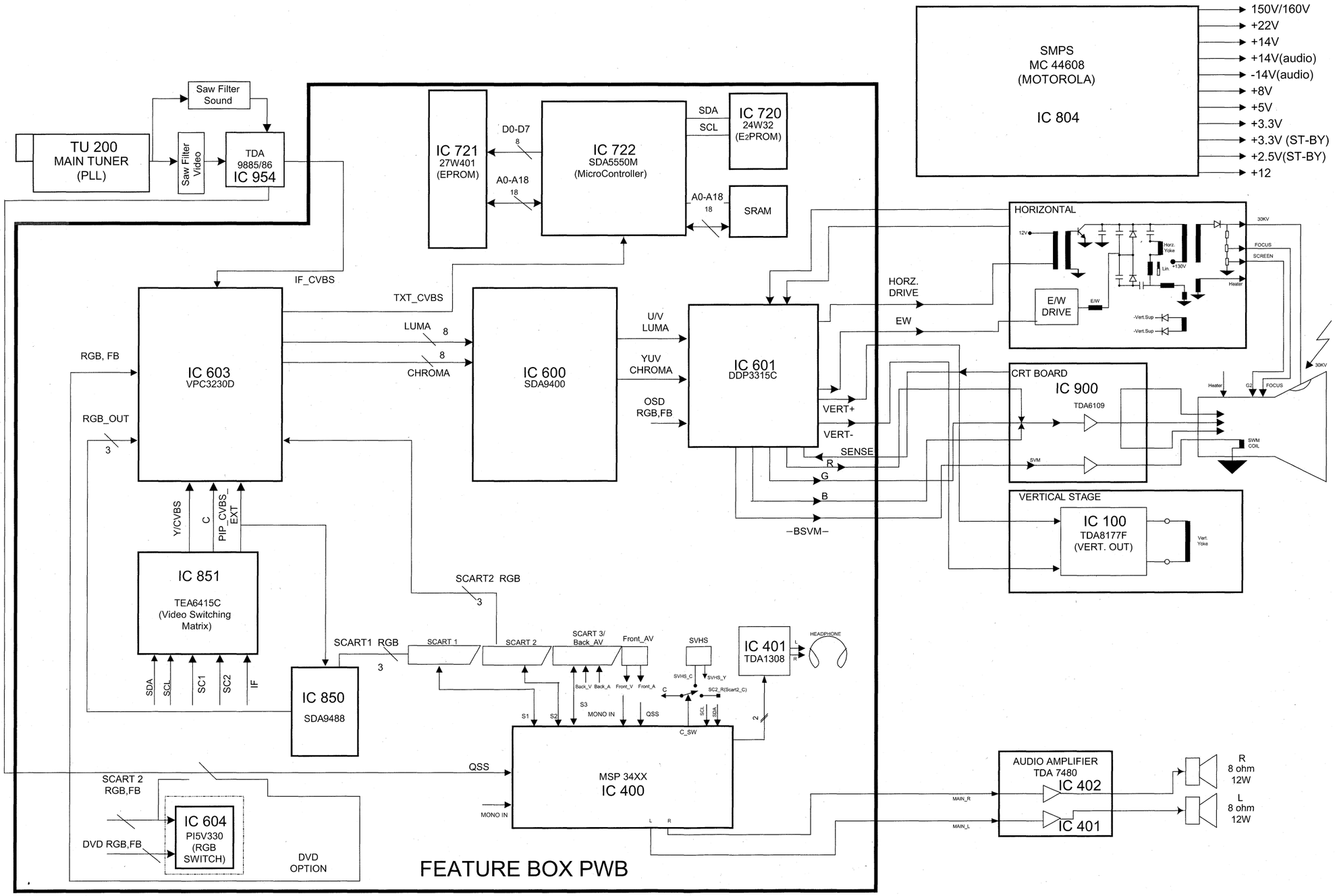


CHIP IC



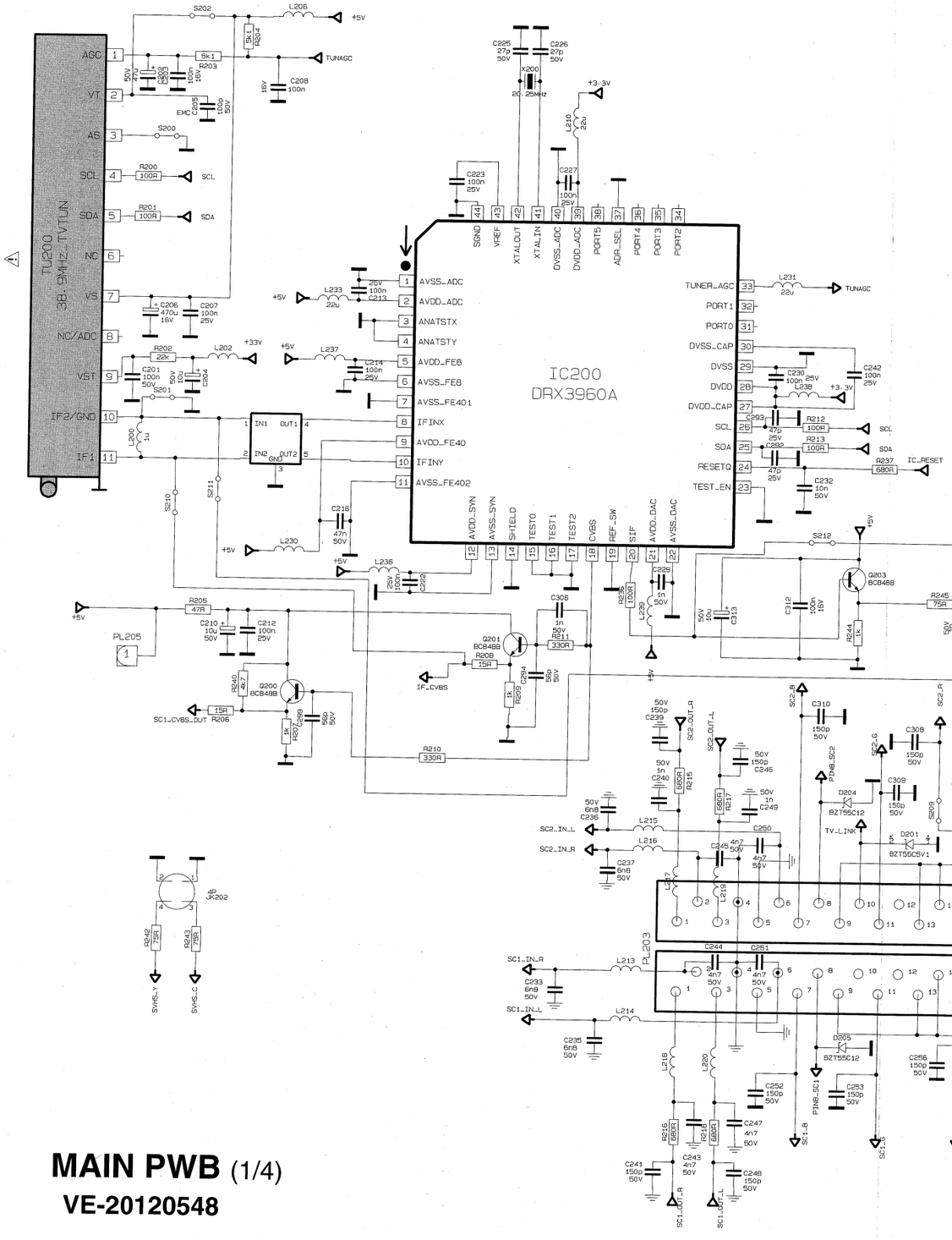
AV-28KH1BUF
AV-28KH1SUF

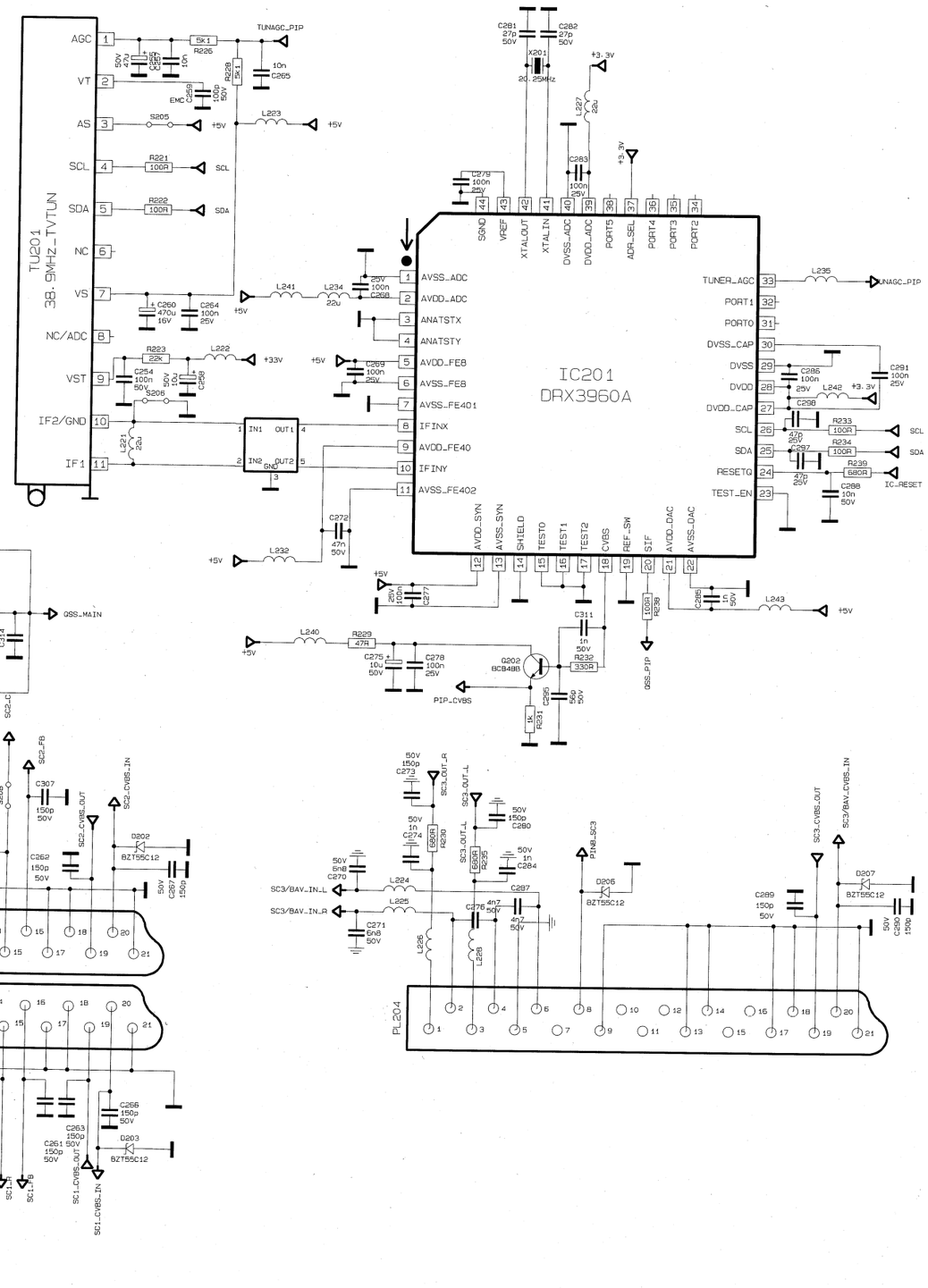
BLOCK DIAGRAM



AV-28KH1BUF
AV-28KH1SUF

CIRCUIT DIAGRAMS *MAIN PWB CIRCUIT DIAGRAM [1/4]*

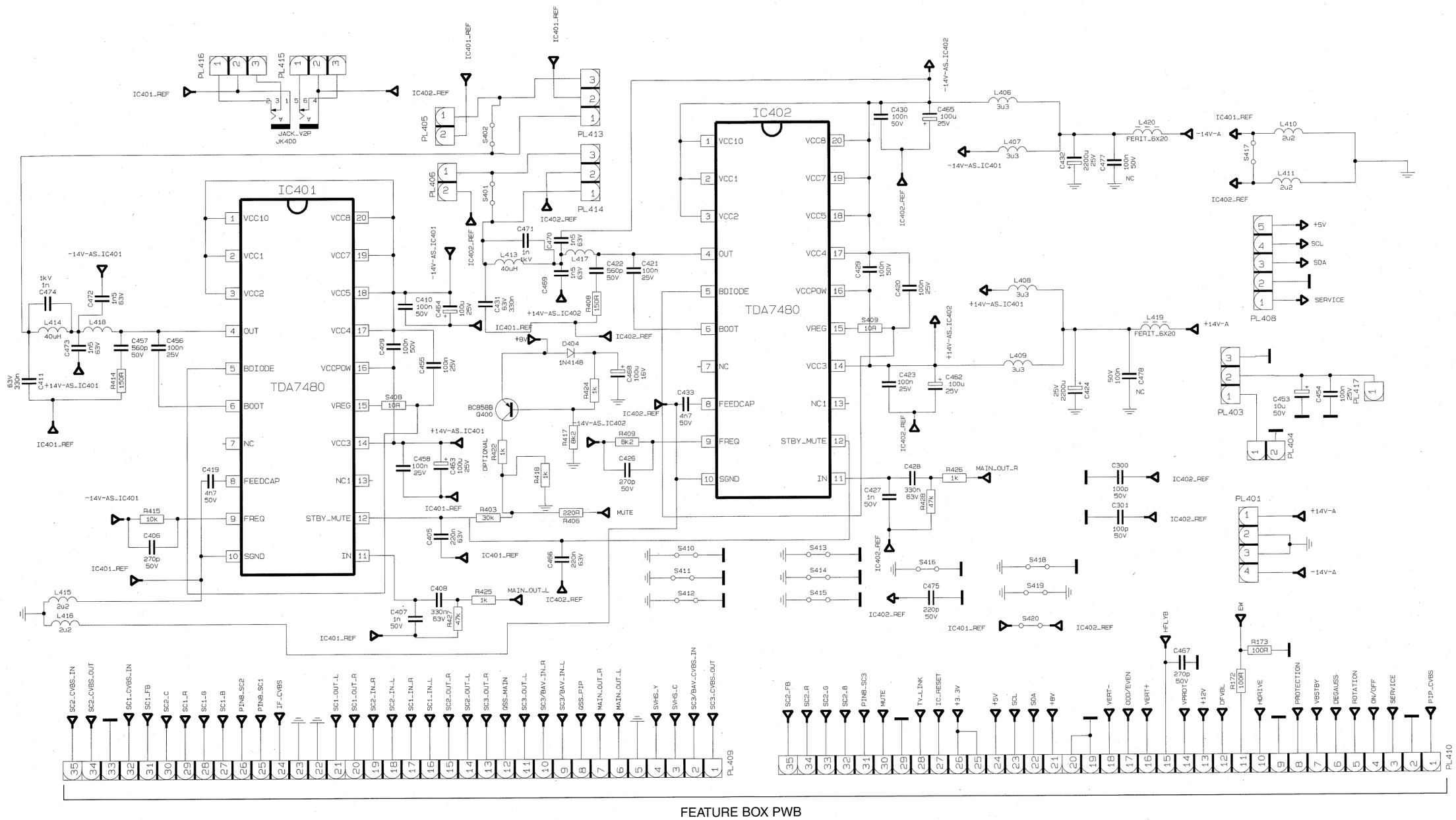




MAIN PWB (1/4)
VE-20120548

AV-28KH1BUF
AV-28KH1SUF

MAIN PWB CIRCUIT DIAGRAM [2/4]

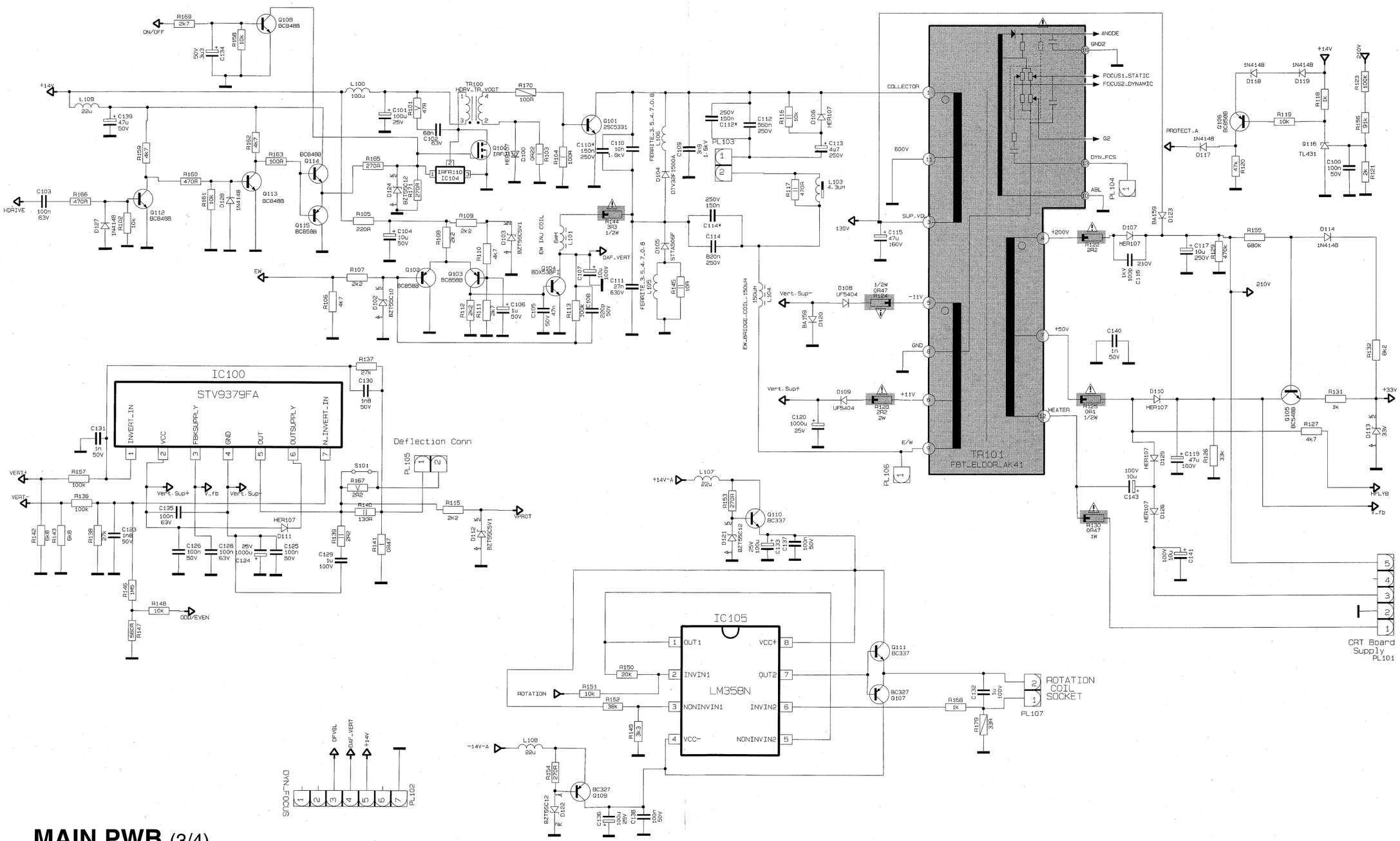


MAIN PWB (2/4)

VE-20120548

AV-28KH1BUF
AV-28KH1SUF

MAIN PWB CIRCUIT DIAGRAM [3/4]

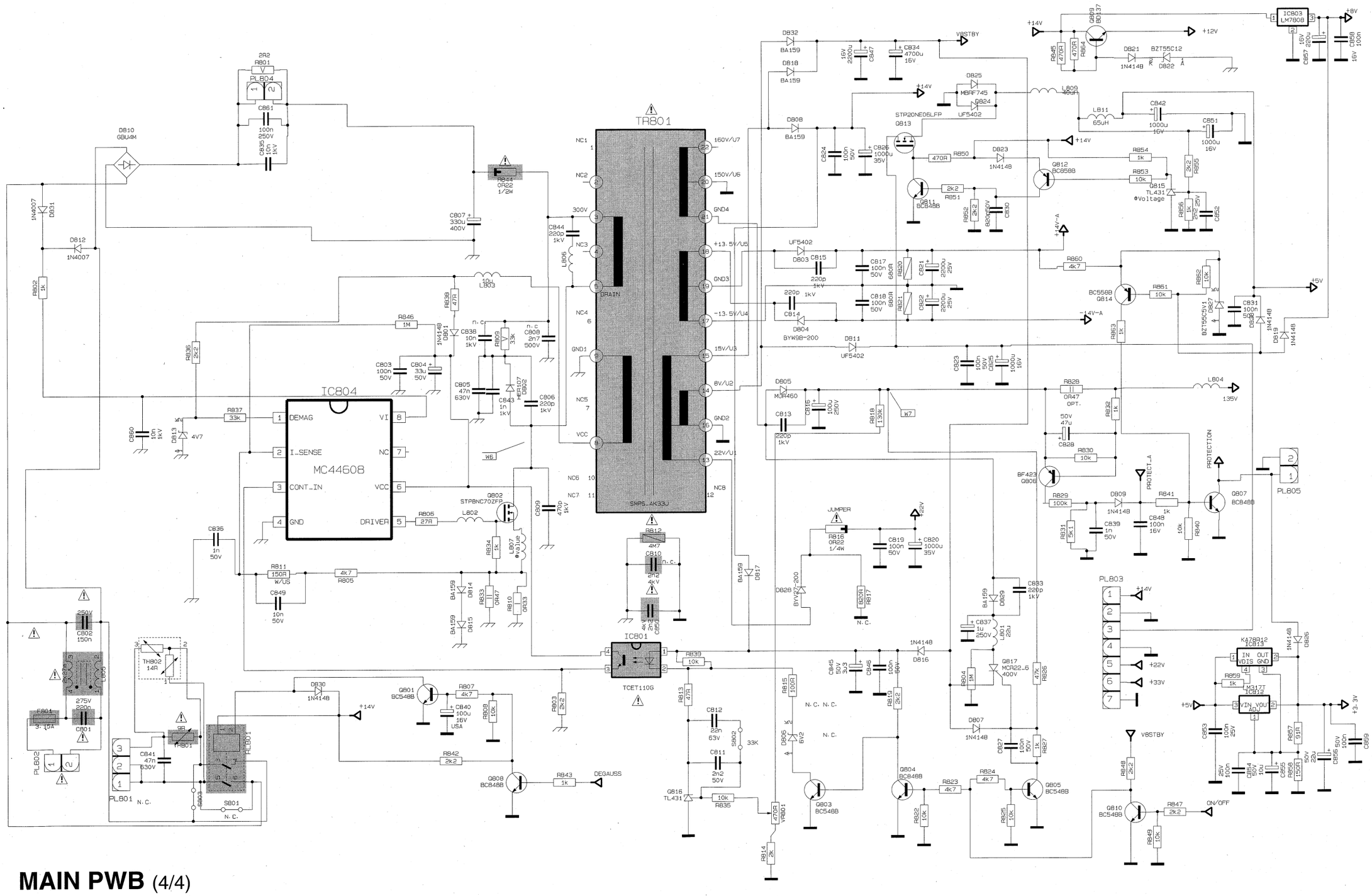


MAIN PWB (3/4)

VE-20120548

AV-28KH1BUF
AV-28KH1SUF

MAIN PWB CIRCUIT DIAGRAM [4/4]

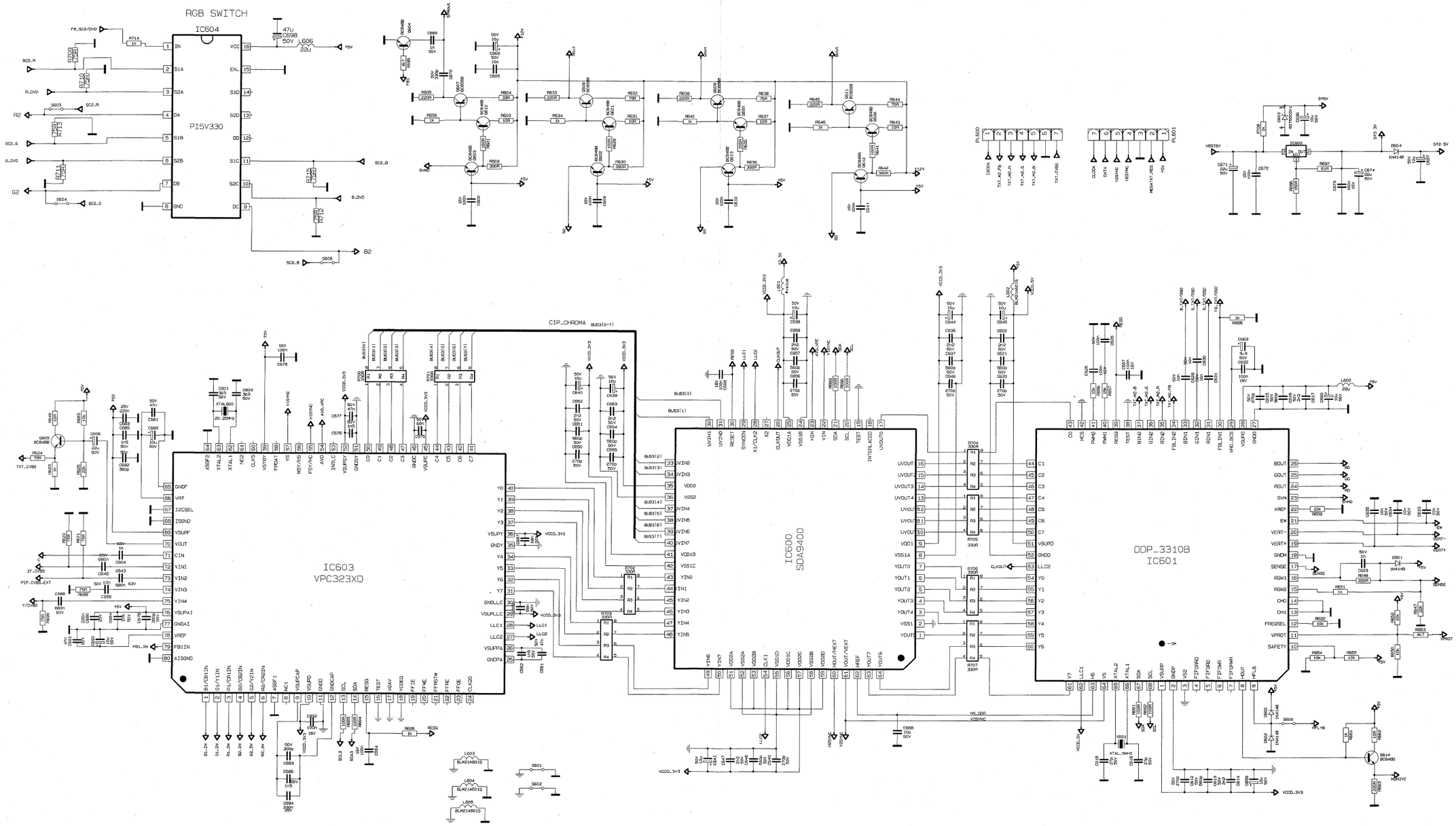


MAIN PWB (4/4)

VE-20120548

AV-28KH1BUF
AV-28KH1SUF

FEATURE BOX PWB CIRCUIT DIAGRAM [1/4]

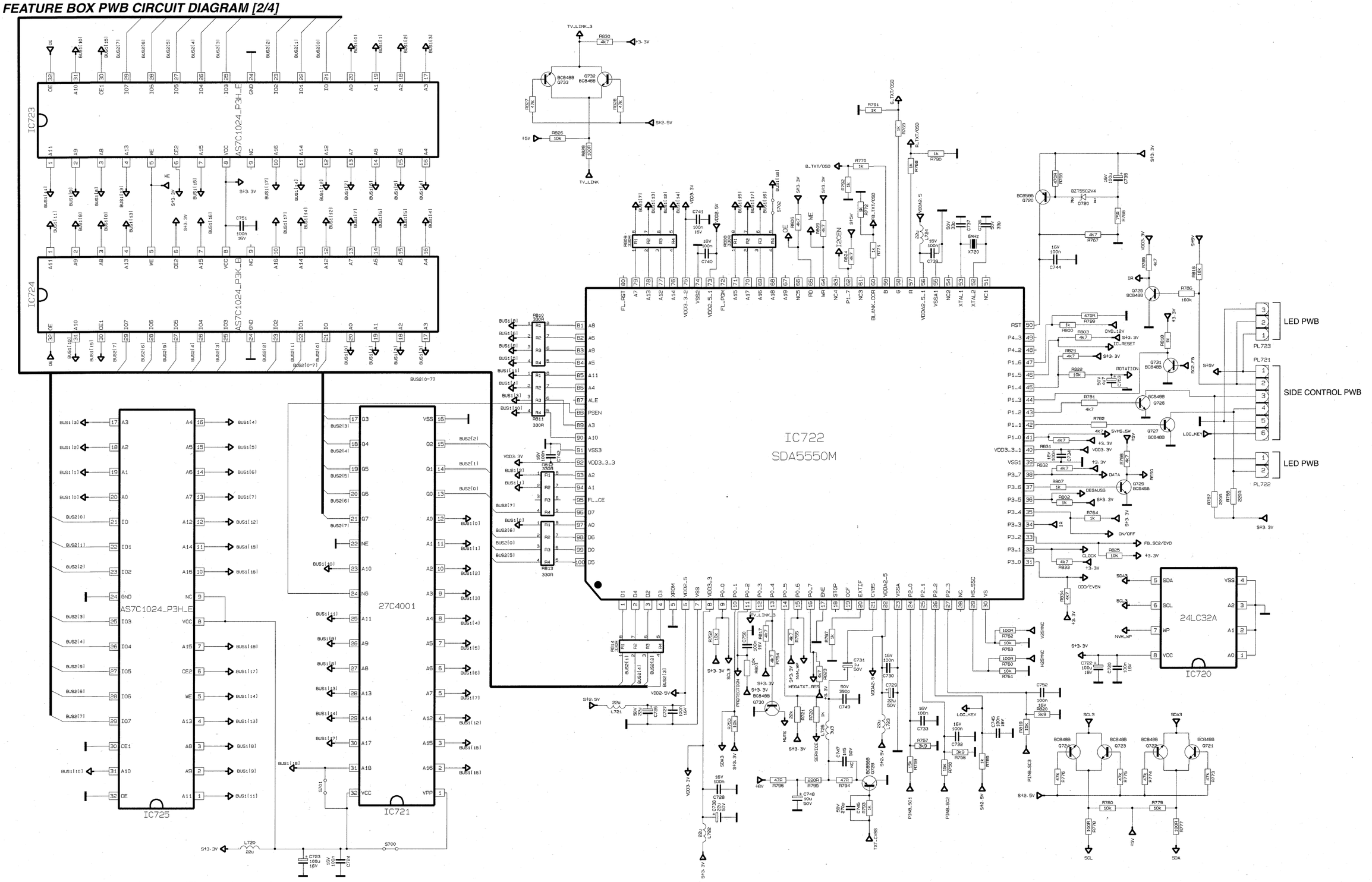


FEATURE BOX PWB (1/4)

VE-20120491

AV-28KH1BUF
AV-28KH1SUF

FEATURE BOX PWB CIRCUIT DIAGRAM [2/4]

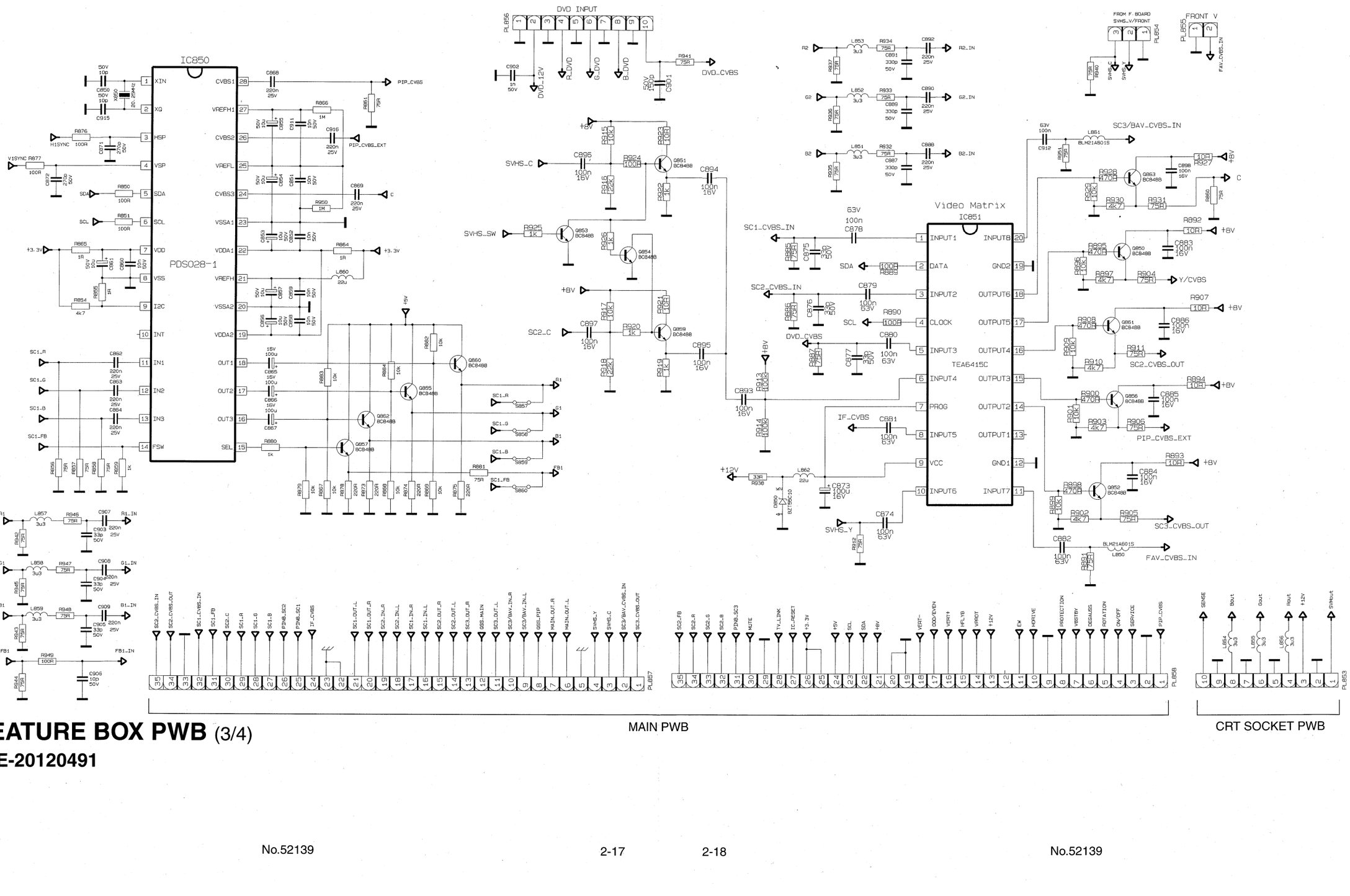


FEATURE BOX PWB (2/4)

VE-20120491

AV-28KH1BUF
AV-28KH1SUF

FEATURE BOX PWB CIRCUIT DIAGRAM [3/4]

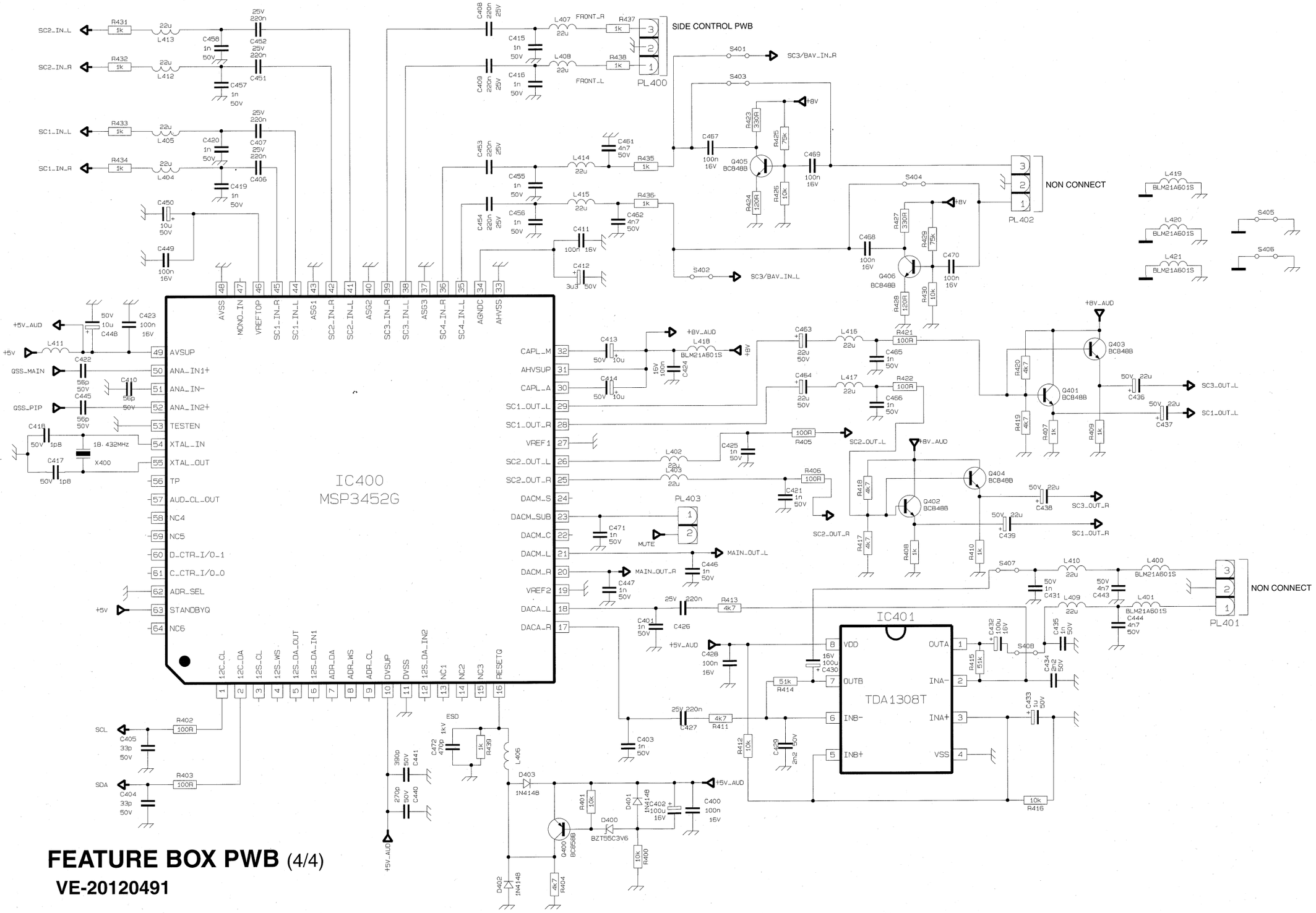


FEATURE BOX PWB (3/4)

VE-20120491

AV-28KH1BUF
AV-28KH1SUF

FEATURE BOX PWB CIRCUIT DIAGRAM [4/4]

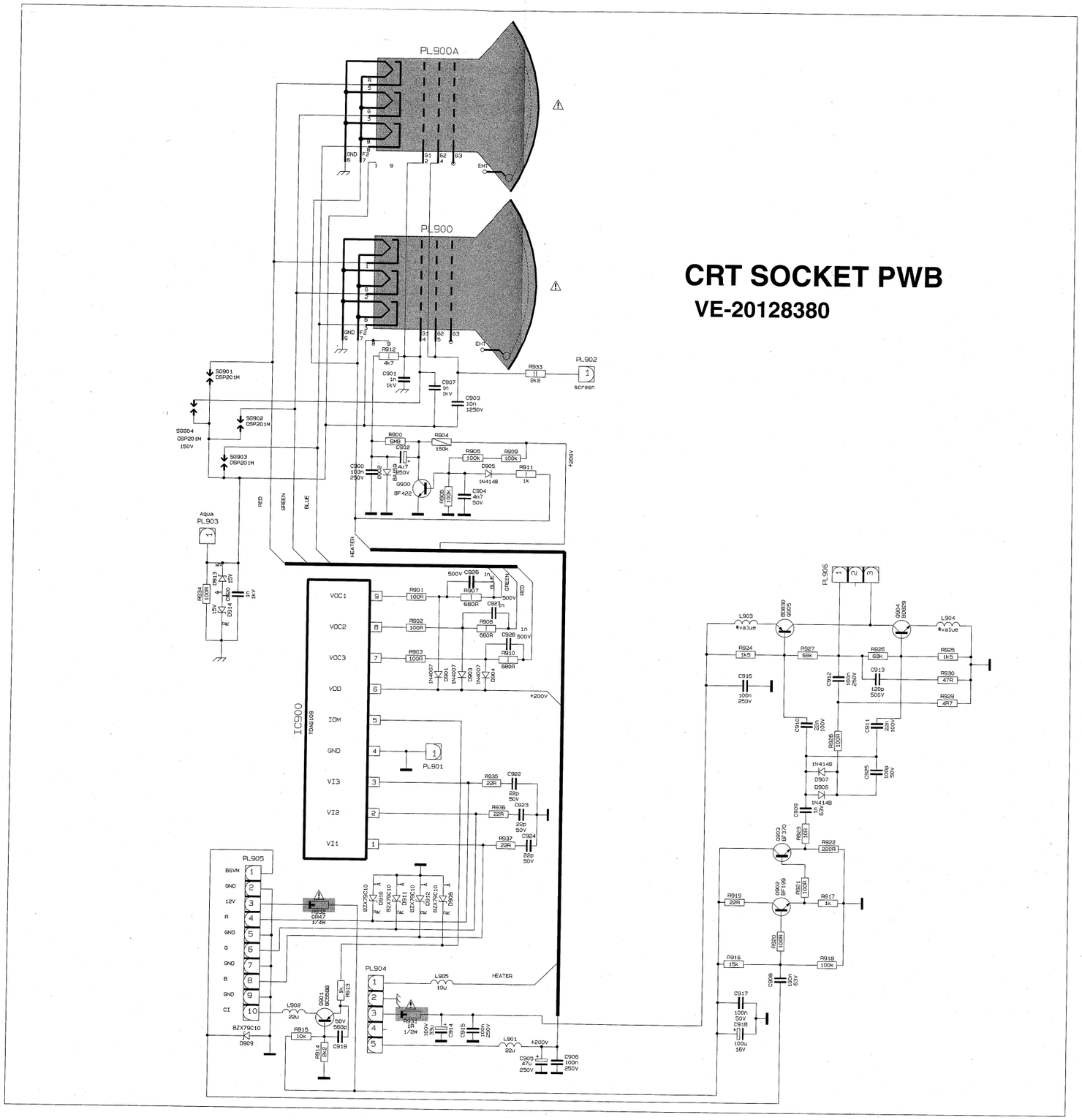


FEATURE BOX PWB (4/4)

VE-20120491

AV-28KH1BUF
AV-28KH1SUF

CRT SOCKET PWB CIRCUIT DIAGRAM

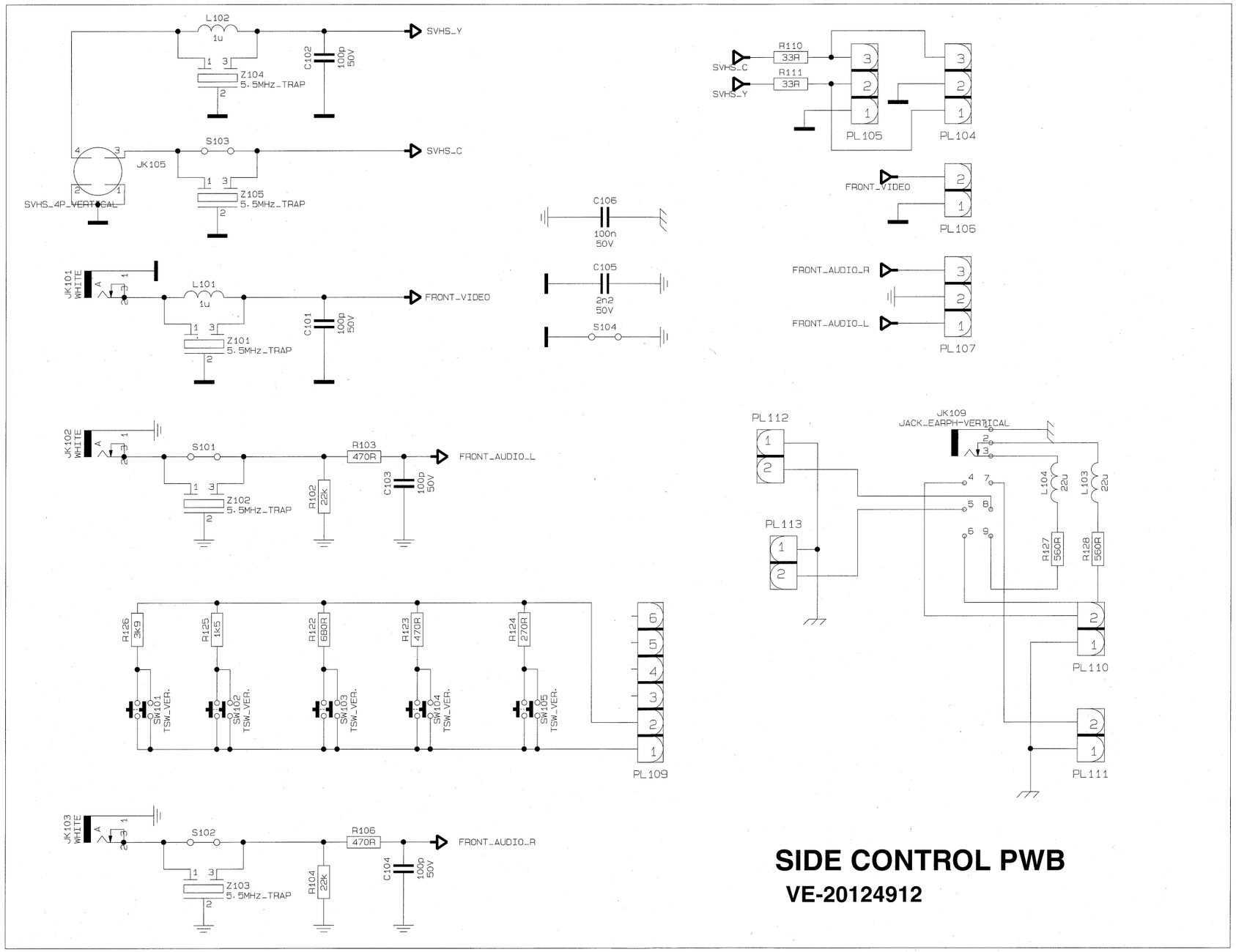


CRT SOCKET PWB

VE-20128380

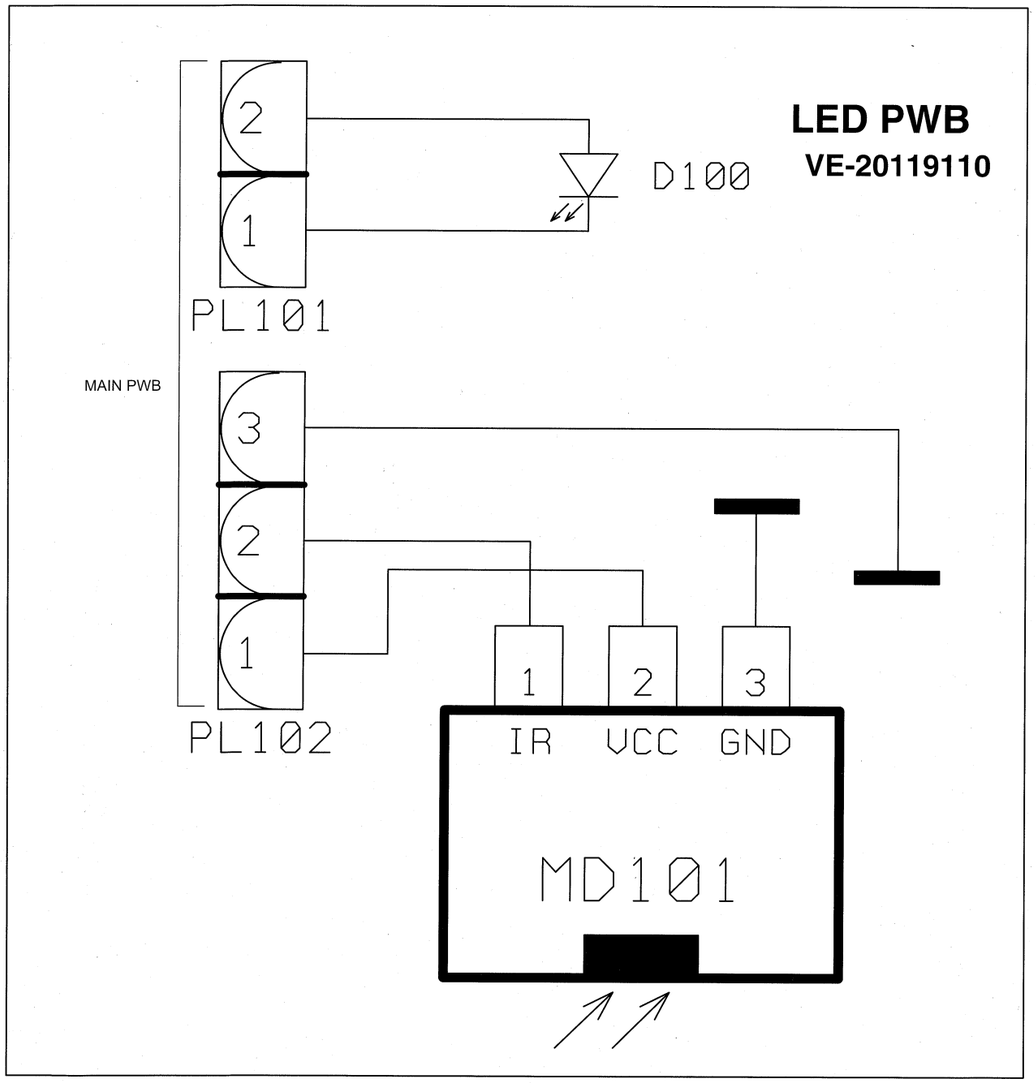
AV-28KH1BUF
AV-28KH1SUF

SIDE CONTROL PWB CIRCUIT DIAGRAM

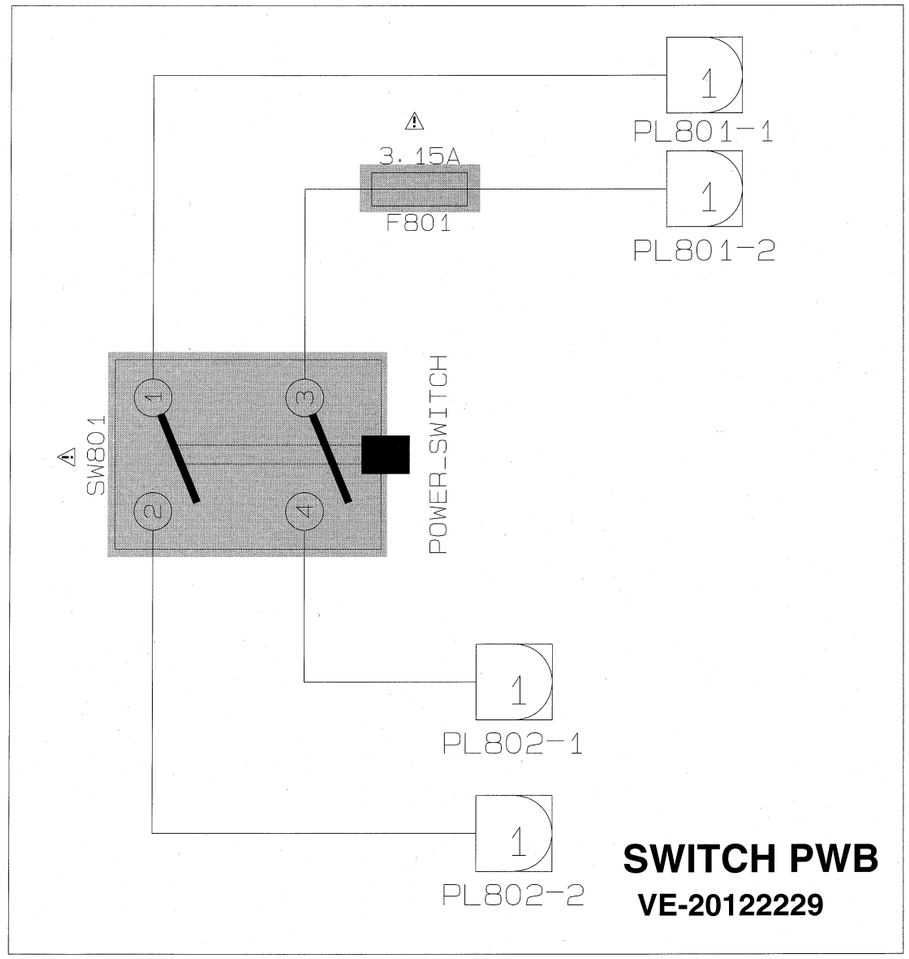


SIDE CONTROL PWB
VE-20124912

LED PWB CIRCUIT DIAGRAM



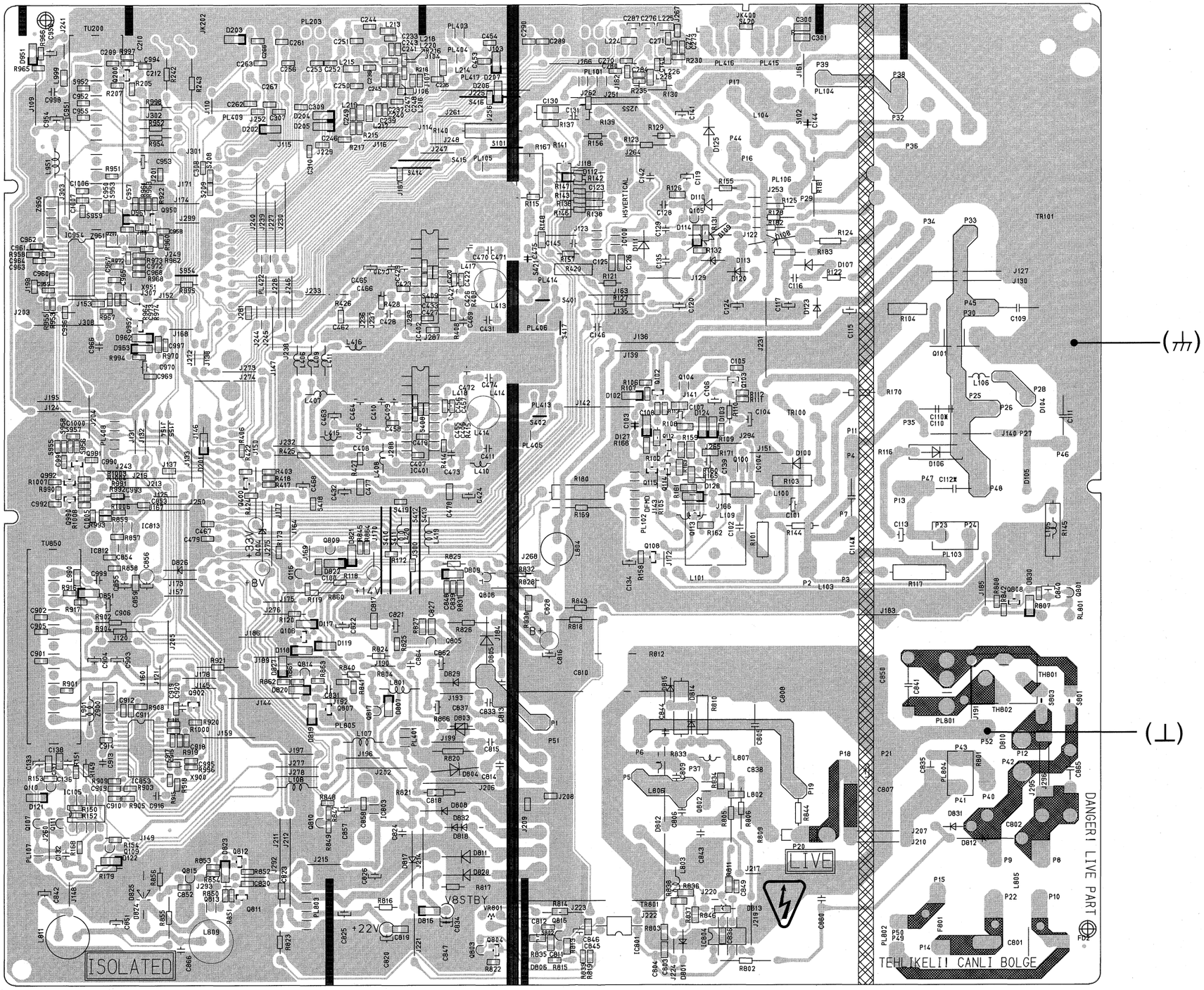
SWITCH PWB CIRCUIT DIAGRAM



AV-28KH1BUF
AV-28KH1SUF

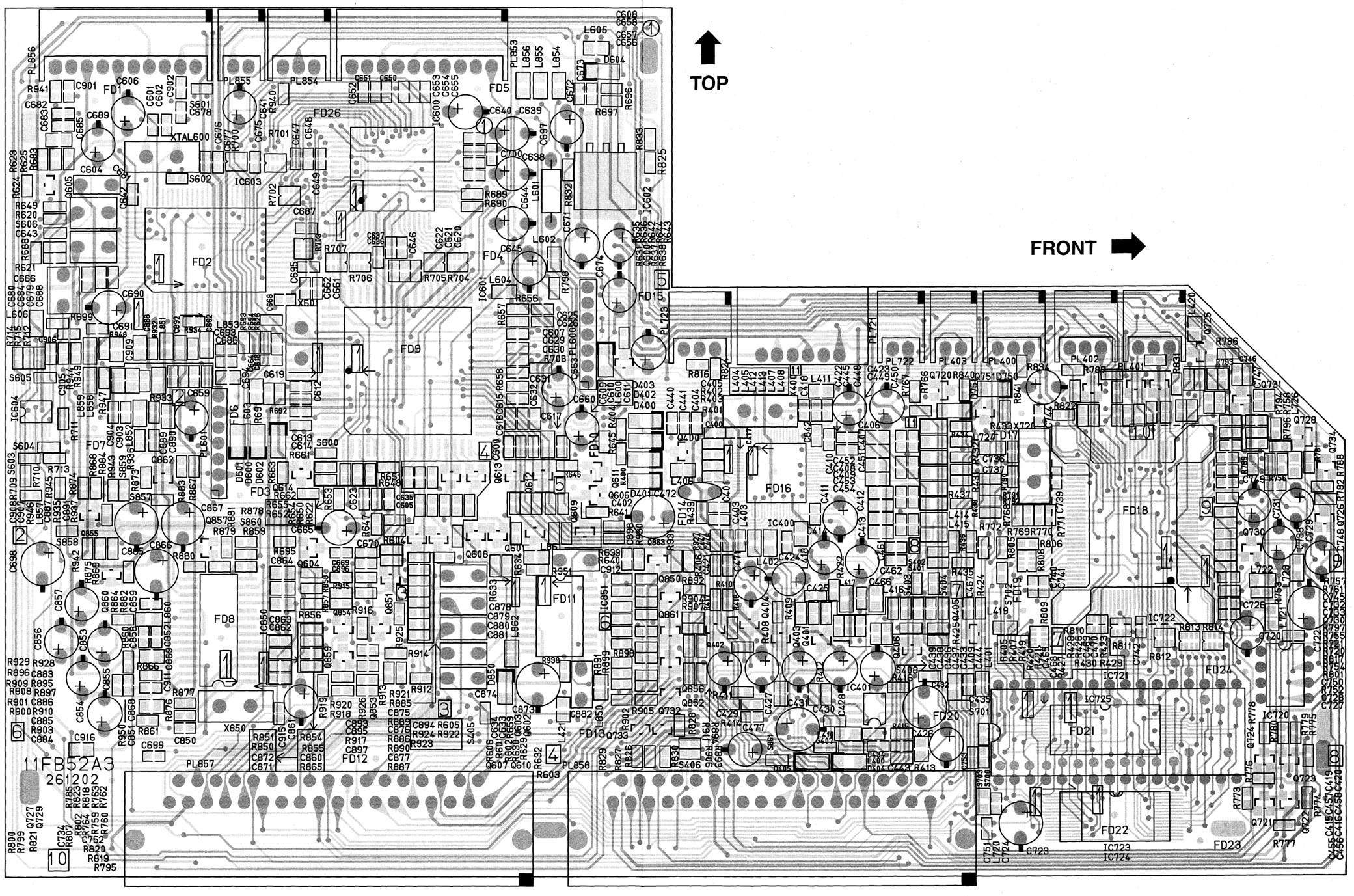
PATTERN DIAGRAMS *MAIN PWB PATTERN*

FRONT



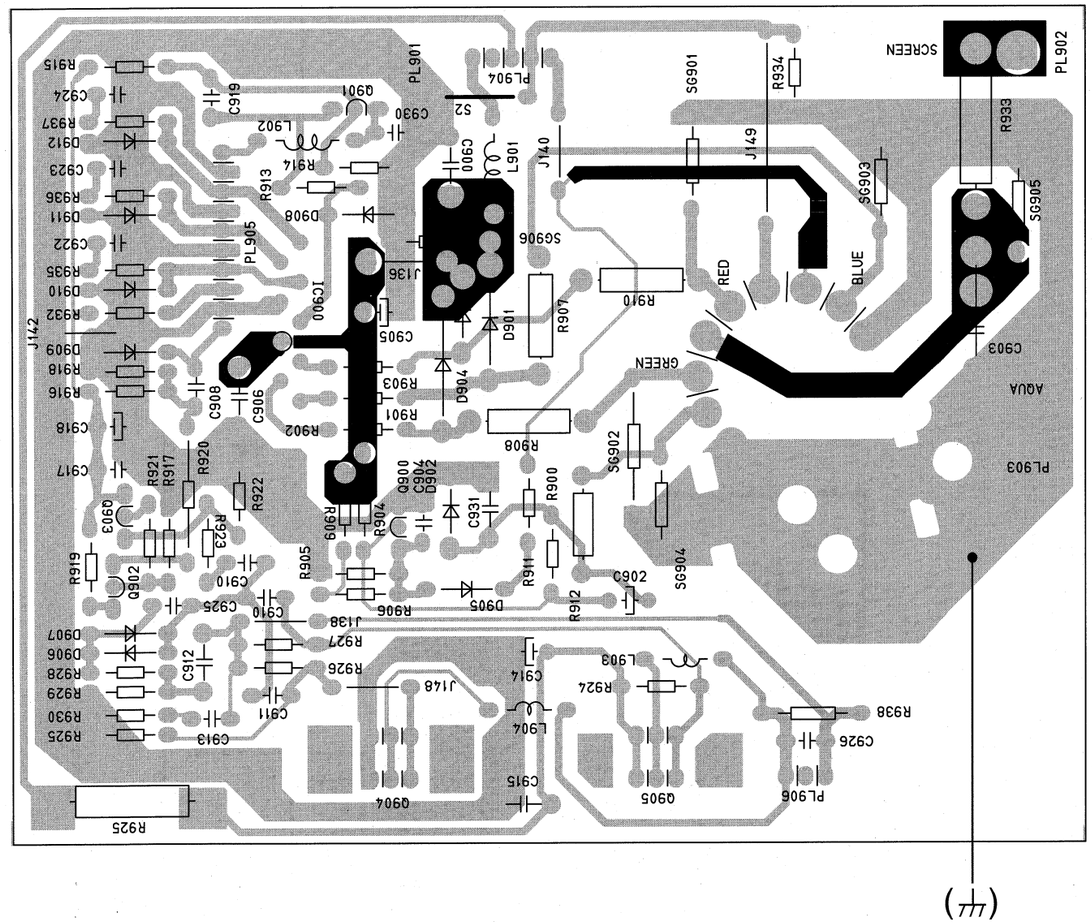
AV-28KH1BUF
AV-28KH1SUF

FEATURE BOX PWB PATTERN



CRT SOCKET PWB PATTERN

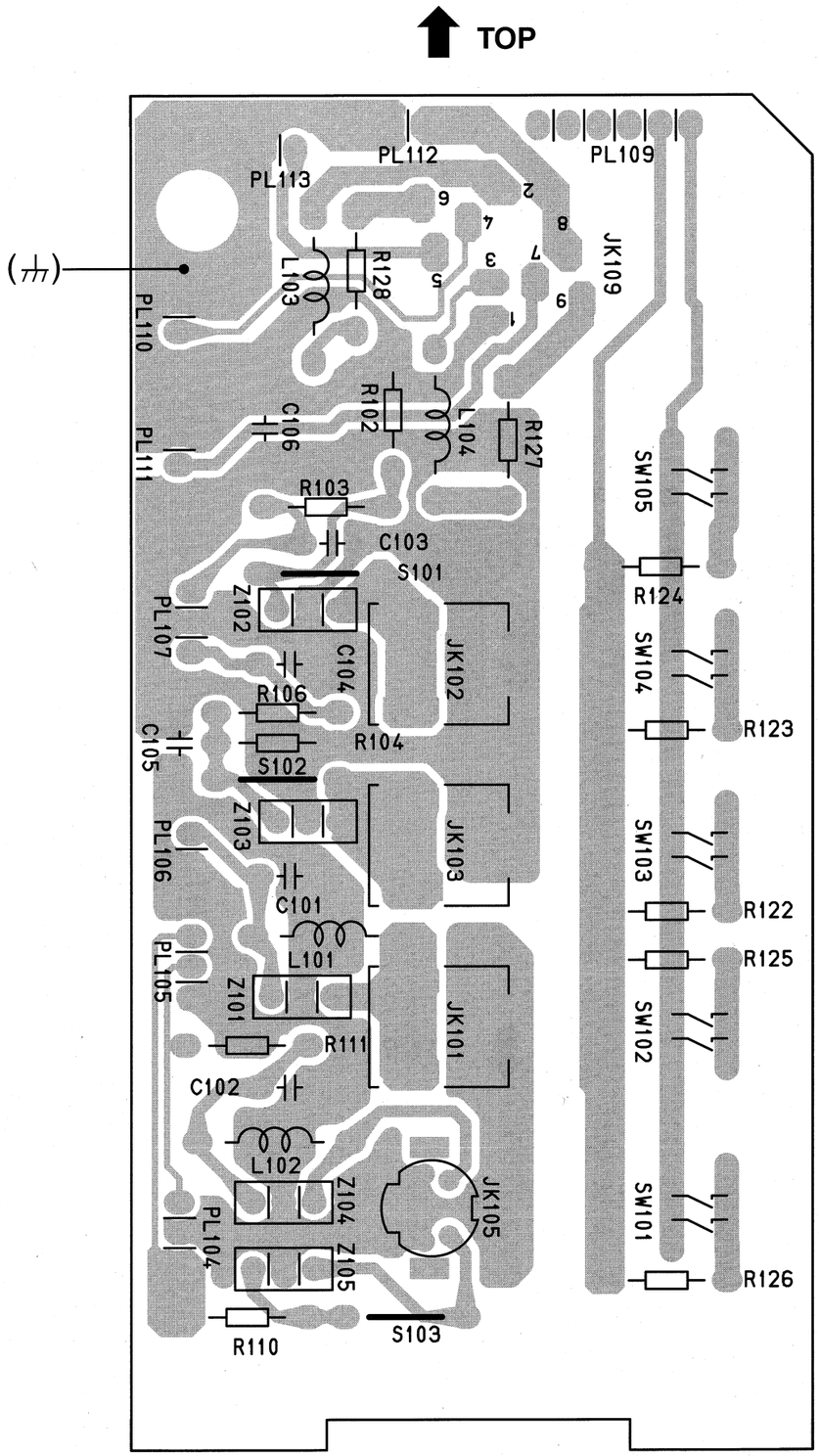
TOP



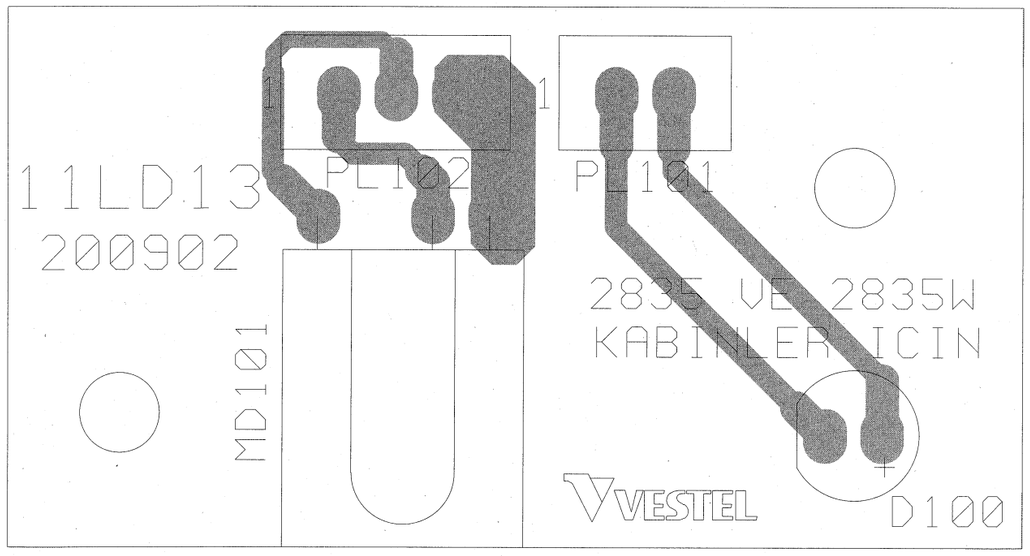
AV-28KH1BUF
AV-28KH1SUF

SIDE CONTROL PWB PATTERN

TOP



LED PWB PATTERN



TOP

POWER SWITCH PWB PATTERN